

● PRINTER RUSH ●

(PTO ASSISTANCE)

Application : <u>09/552292</u>	Examiner : <u>KISS</u>	GAU : <u>2192</u>
From: <u>MWO</u>	Location: <u>IDC FMF FDC</u>	Date: <u>11/18/05</u>
Tracking #: <u>ERM-09/552292</u> Week Date: <u>9/26/05</u>		

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449	_____	<input type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS	_____	<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM	_____	<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW	_____	<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW	_____	<input type="checkbox"/> Other
<input checked="" type="checkbox"/> DRW	<u>4-19-00</u>	
<input type="checkbox"/> OATH	_____	
<input type="checkbox"/> 312	_____	
<input type="checkbox"/> SPEC	_____	

[RUSH] MESSAGE: ATTN: Chief Draftsperson

① Fig. 20 is cut off on the right side.
If possible, please provide a complete
replacement for this drawing.

Thanks

[XRUSH] RESPONSE: _____

Dwg corrected

INITIALS: WJS

FIG. 1

```

    100
    struct S {
        S() throw(); ~ 101
        ~S() throw(); ~ 102
    };

    103
    struct T {
        T(); ~ 104
        ~T(); ~ 105
    };

    void woof();
    ...
    L1: {
        T ant; ~ 107
    108 ~ try { ~ 109
        if( x>0 ) {
            S boa; ~ 110
        111 ~ } else {
            S cat; ~ 112
            T dog; ~ 113
            woof(); ~ 114
        115 ~ }
        116 ~ } catch( int y ) { ~ 117
            S elk; ~ 118
            woof(); ~ 119
        120 ~ }
        } ~ 121
    L2;;

```

```

#include <setjmp.h>

struct EH_item {
    struct EH_item * next;
    enum {DESTROY, TRY} tag;
    union {
        struct {
            void * object;
            void (*dtor)();
        } destructor;
        struct {
            jmp_buf buffer;
            struct handler_spec* handlers;
        } try_block;
    };
};

struct EH_item * EH_stack_ptr;

```

Diagrammatic annotations in the original image:

- 200 points to the opening brace of `struct EH_item`.
- 201 points to the opening brace of the inner `union`.
- 202 points to the `tag` member.
- 203 points to the `object` member.
- 204 points to the `dtor` member.
- 205 points to the `buffer` member.
- 206 points to the `handlers` member.
- 207 points to the `EH_stack_ptr` variable.

FIG. 2

FIG. 3
PRIOR ART

```

struct EH_item ra, rb, rc, rd, re, rt;
L1:
303 ~T(&ant);
304 ~ra.kind = DESTROY;
      ra.destructor.object = &ant; ra.destructor.dtor = &~T;
306 ~ra.next = EH_stack_ptr; EH_stack_ptr = &ra;
307 ~rt.kind = TRY;
      rt.next = EH_stack_ptr;
      rt.try_block.handlers = ...;
31 ~rt.next = EH_stack_ptr; EH_stack_ptr = &rt;
31 ~if( setjmp( rt.try_block.buffer)==0 ) {
      if( x>0 ) {
313 ~S(&boa);
314 ~rb.kind = DESTROY;
      rb.destructor.object = &boa; rb.destructor.dtor = &~S;
      rb.next = EH_stack_ptr; EH_stack_ptr = &rb;
31 ~EH_stack_ptr = EH_stack_ptr->next;
      ~S(&boa);
      } else {
        S(cat);
        rc.kind = DESTROY;
        rc.destructor.object = &cat; rc.destructor.dtor = &~S;
        rc.next = EH_stack_ptr; EH_stack_ptr = &rc;
        T(&dog);
        rd.kind = DESTROY;
        rd.destructor.object = &dog; rd.destructor.dtor = &~T;
        rd.next = EH_stack_ptr; EH_stack_ptr = &rd;
        woof();
        EH_stack_ptr = EH_stack_ptr->next;
        ~T(&dog);
        EH_stack_ptr = EH_stack_ptr->next;
        ~S(&cat);
      }
    } else {
      S(&elk);
      re.kind = DESTROY;
      re.destructor.object = &elk; re.destructor.dtor = address of ~S();
      re.next = EH_stack_ptr; EH_stack_ptr = &re;
      ~S(&elk);
      EH_stack_ptr = EH_stack_ptr->next;
    }
342 ~EH_stack_ptr = EH_stack_ptr->next;
343 ~EH_stack_ptr = EH_stack_ptr->next;
34 ~T(ant);
L2:

```

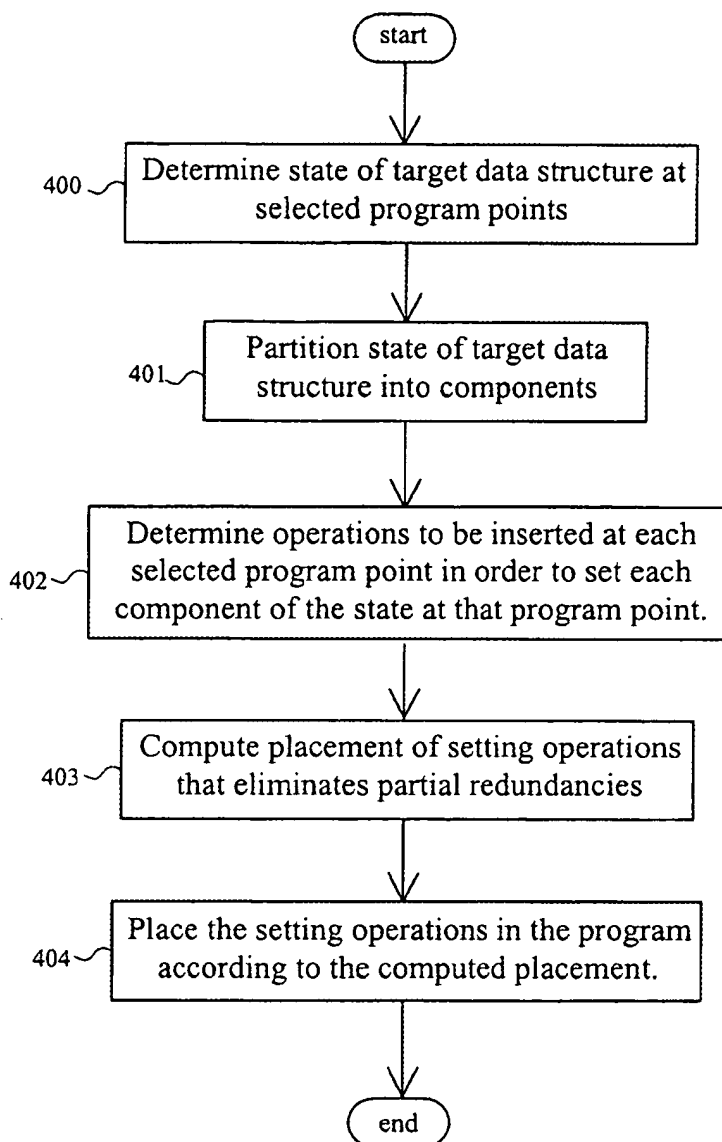
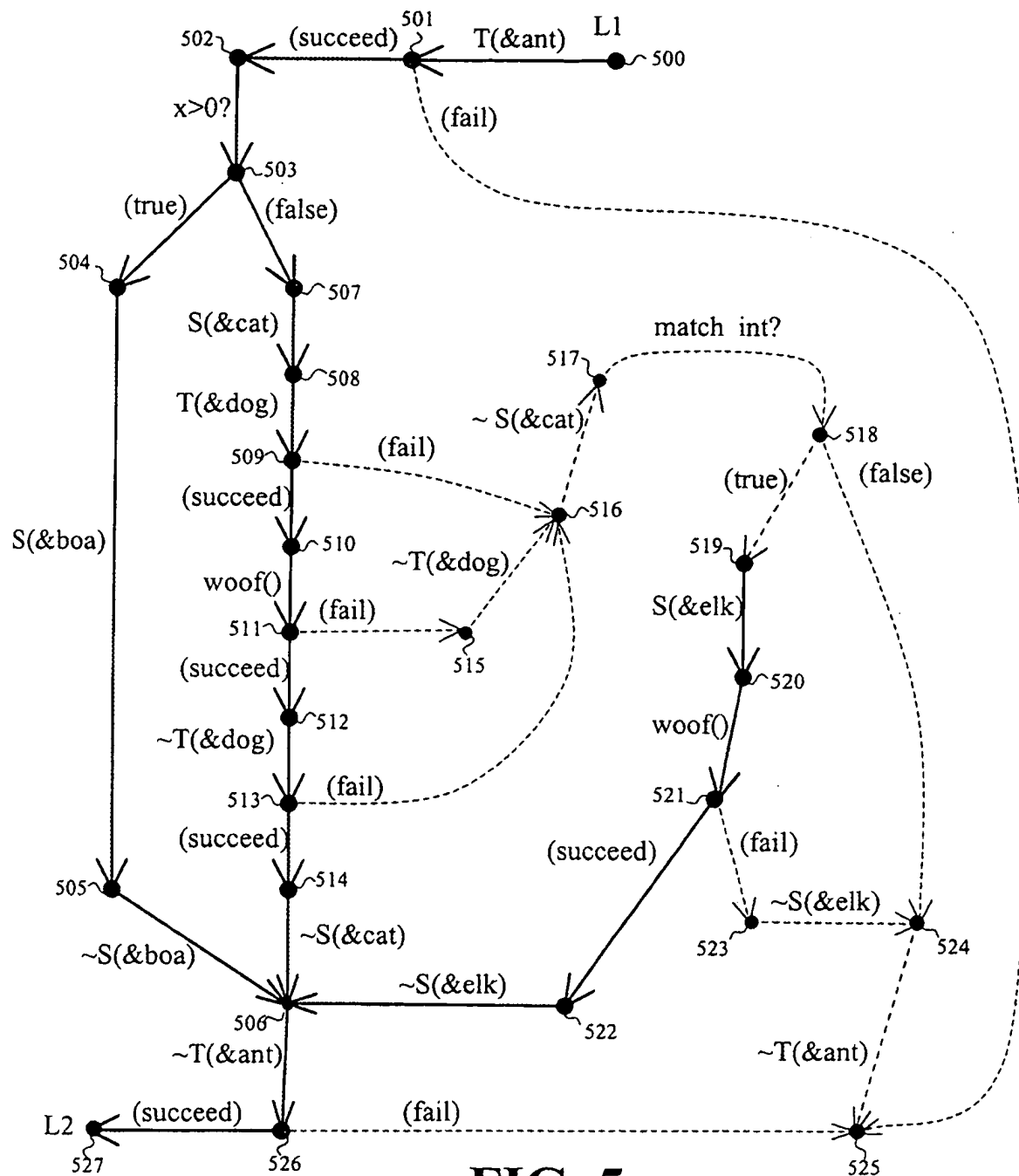


FIG. 4



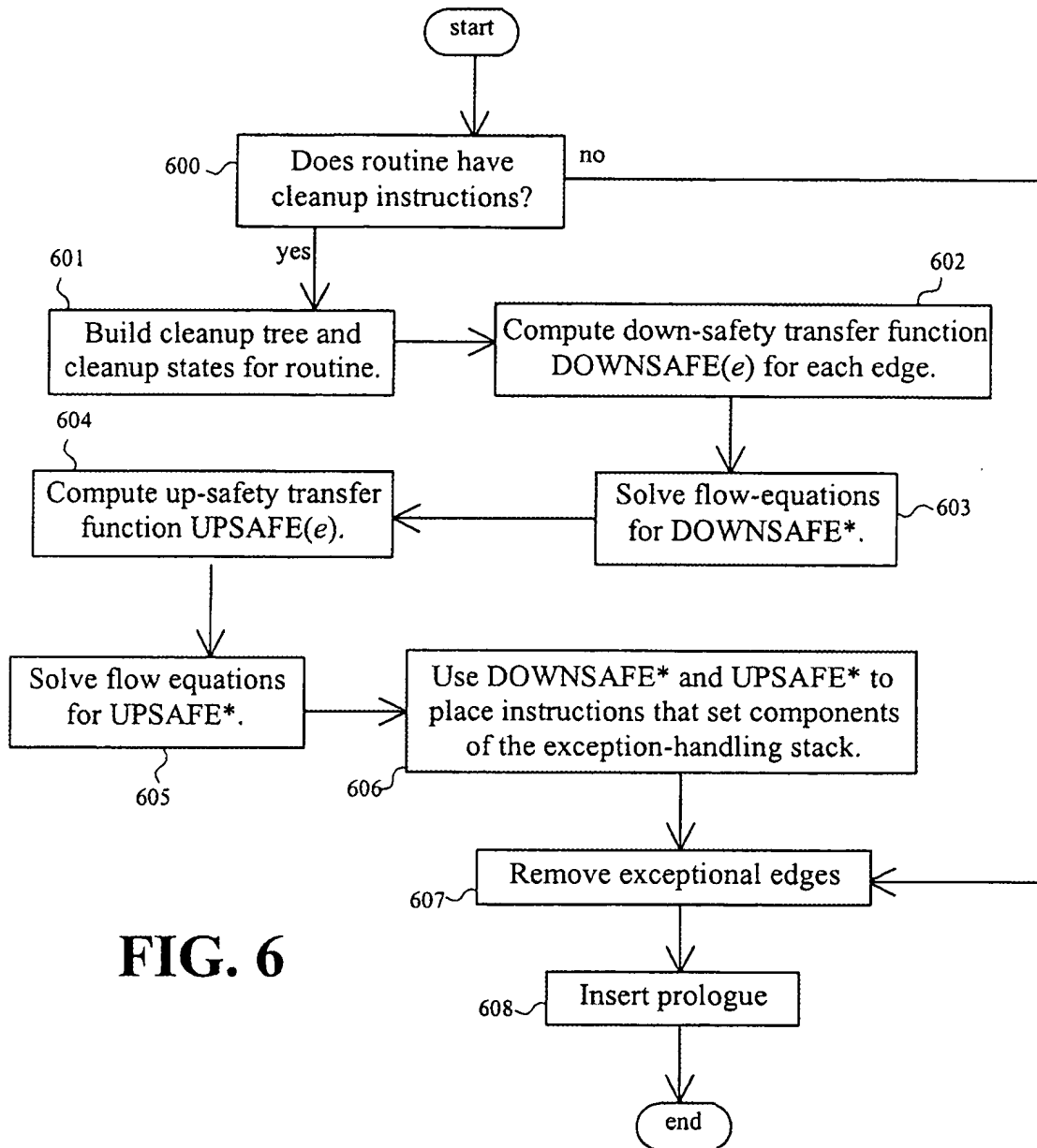
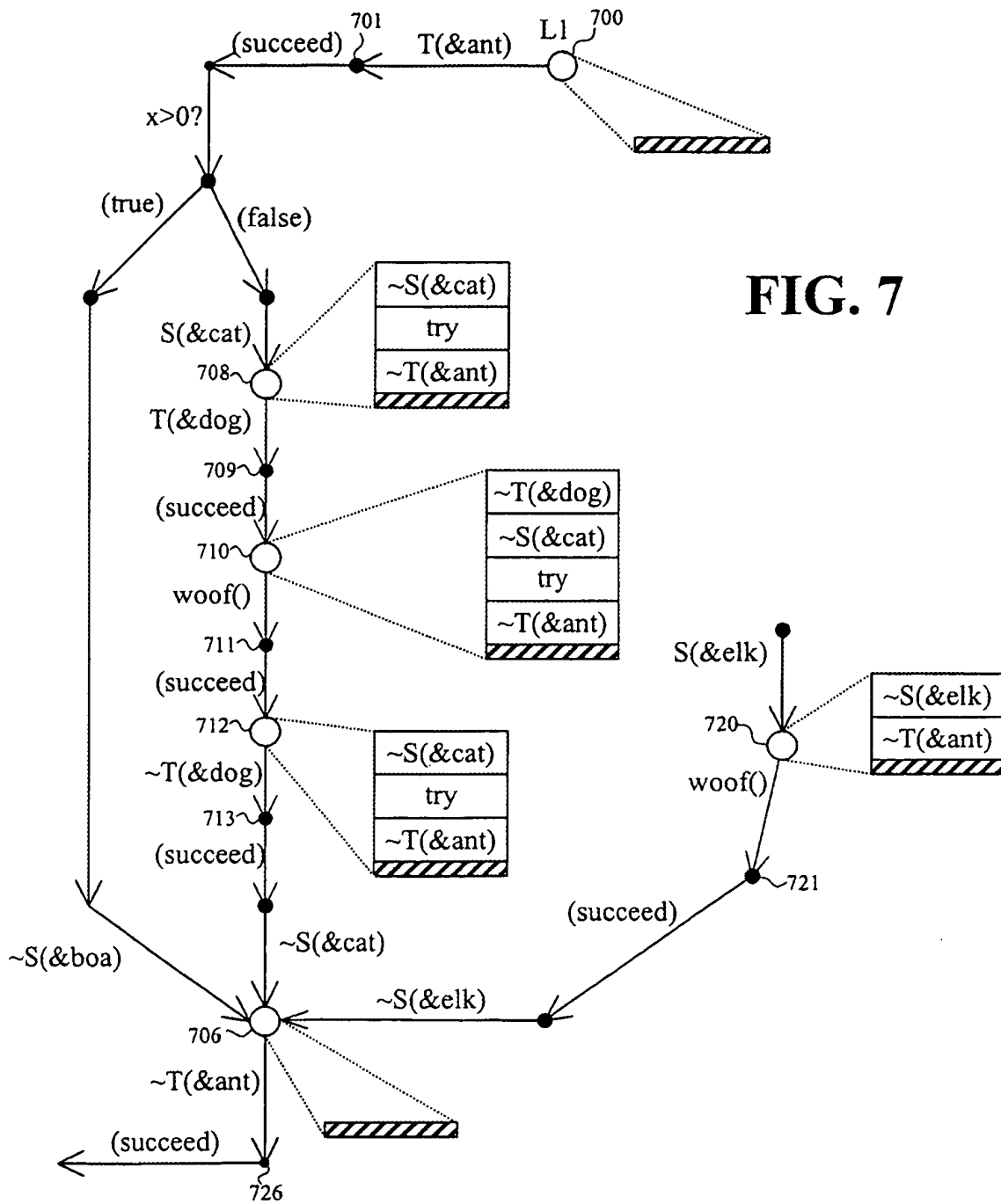


FIG. 6



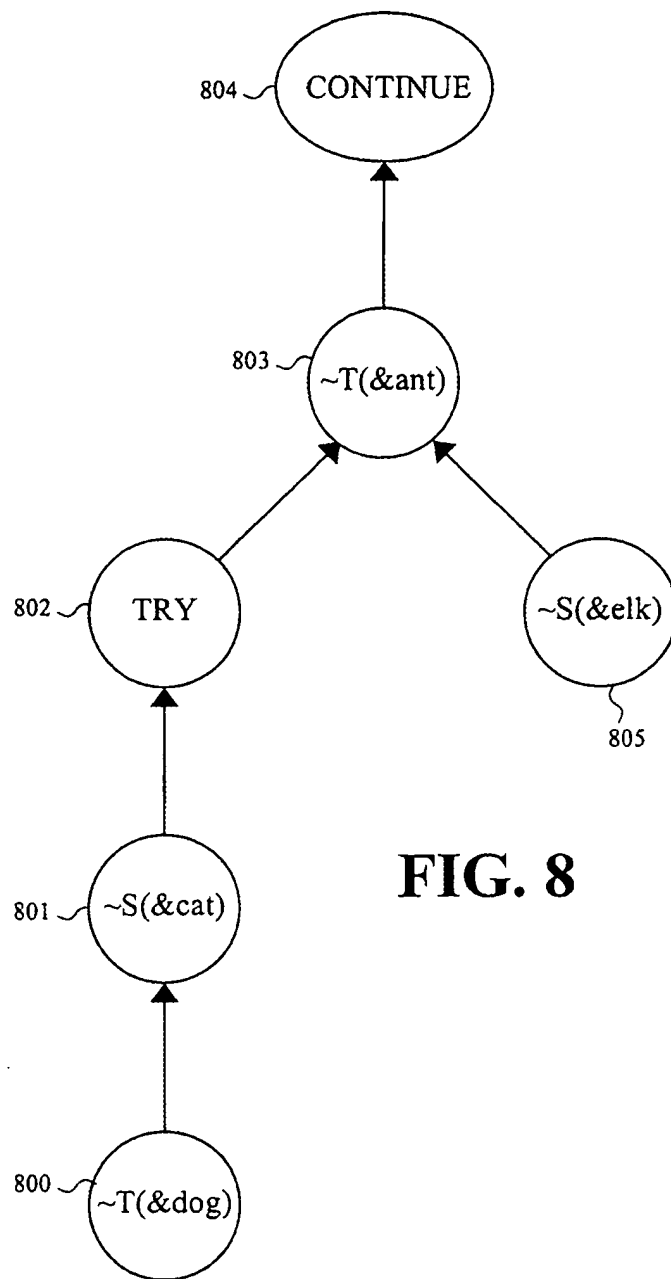


FIG. 8

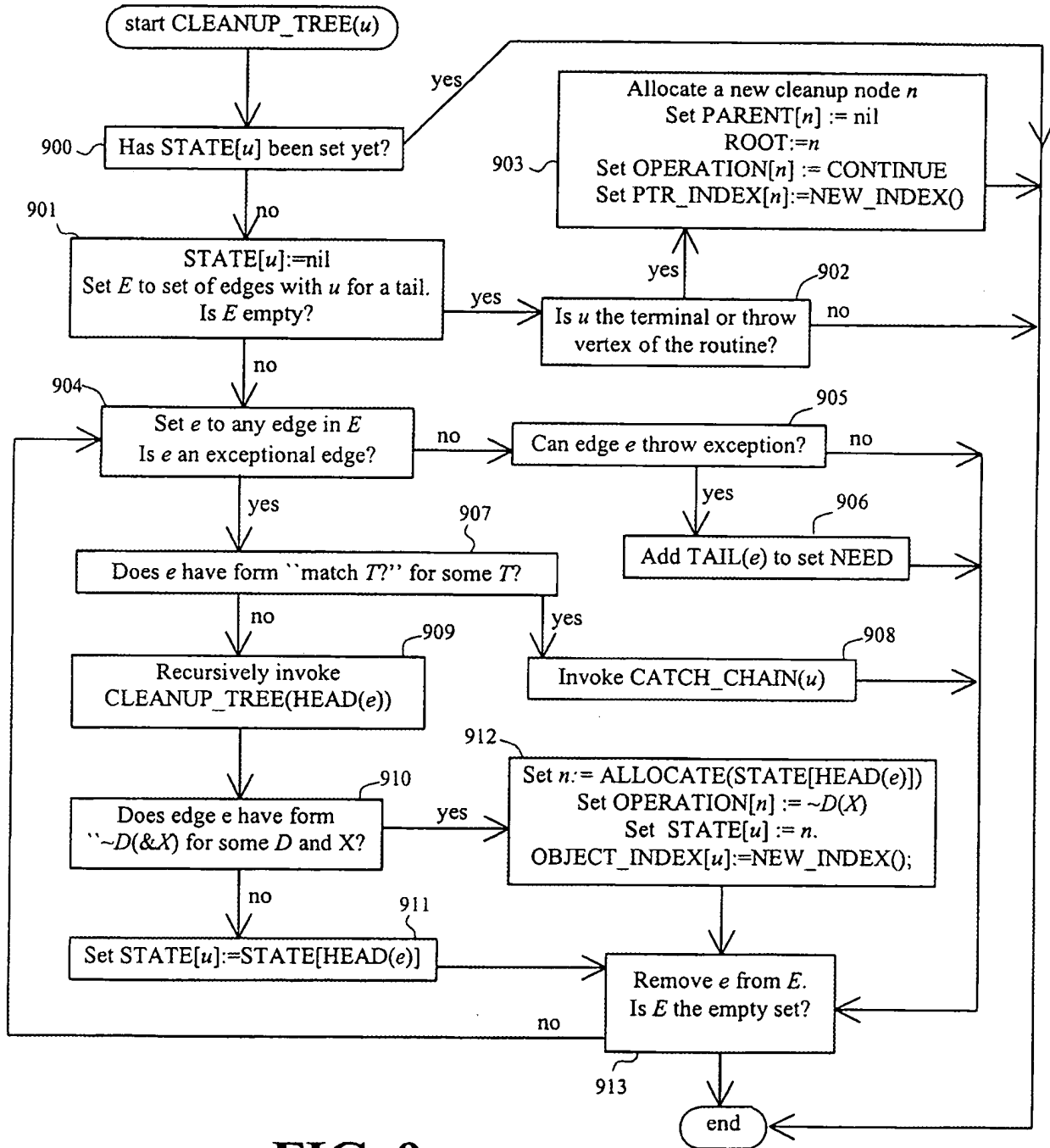


FIG. 9

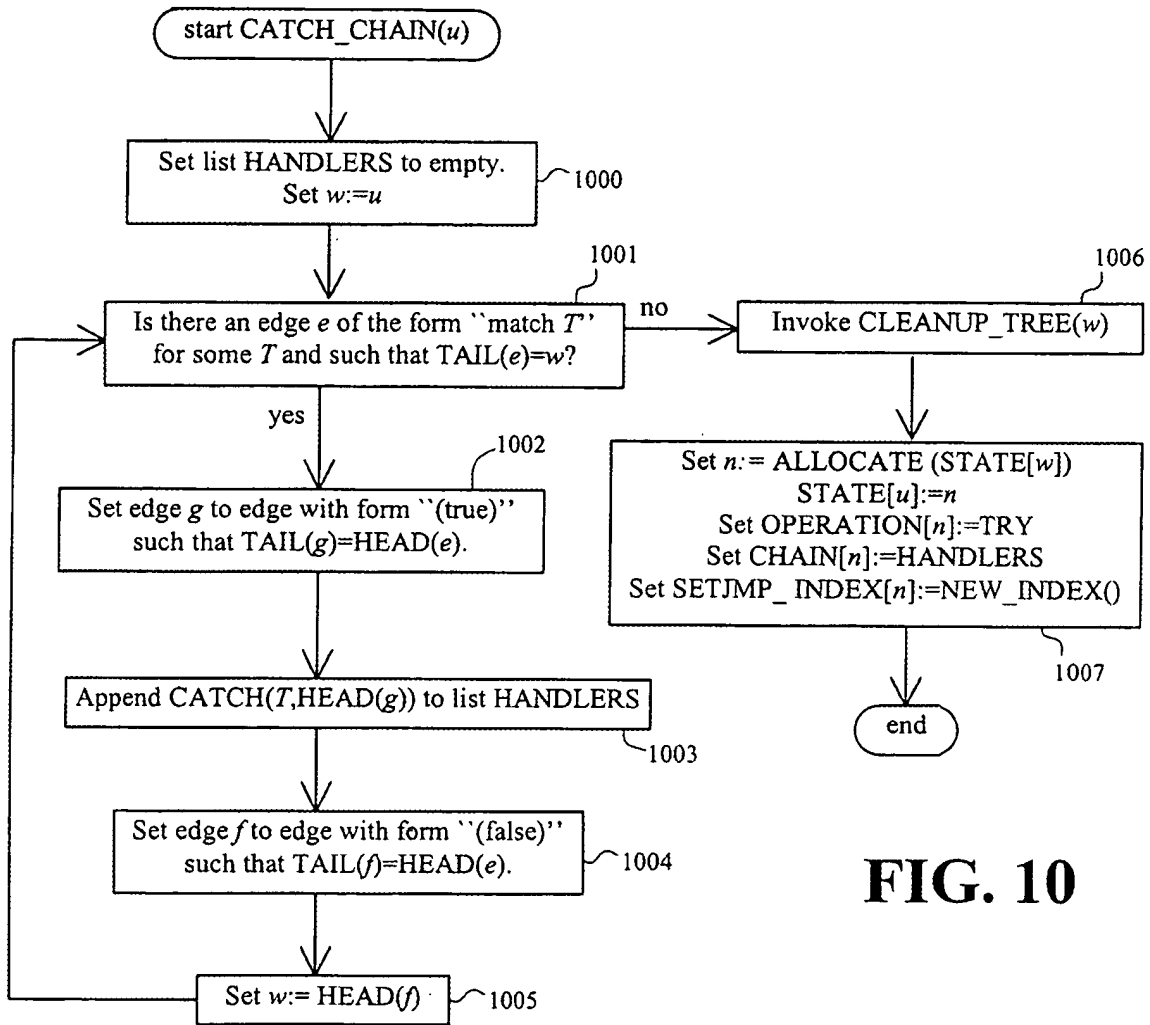


FIG. 10

FIG. 11

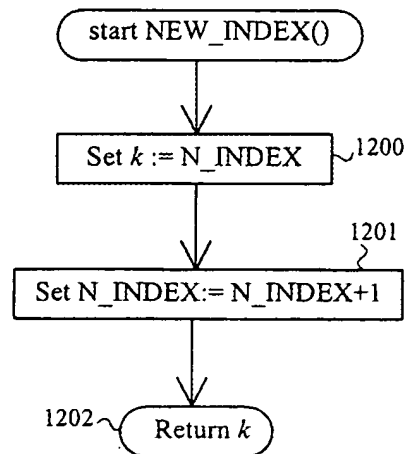
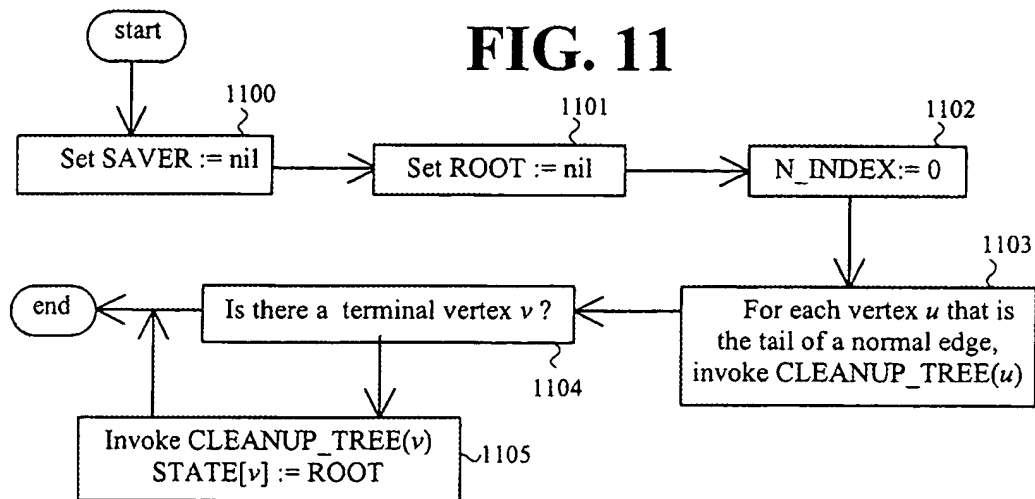


FIG. 12

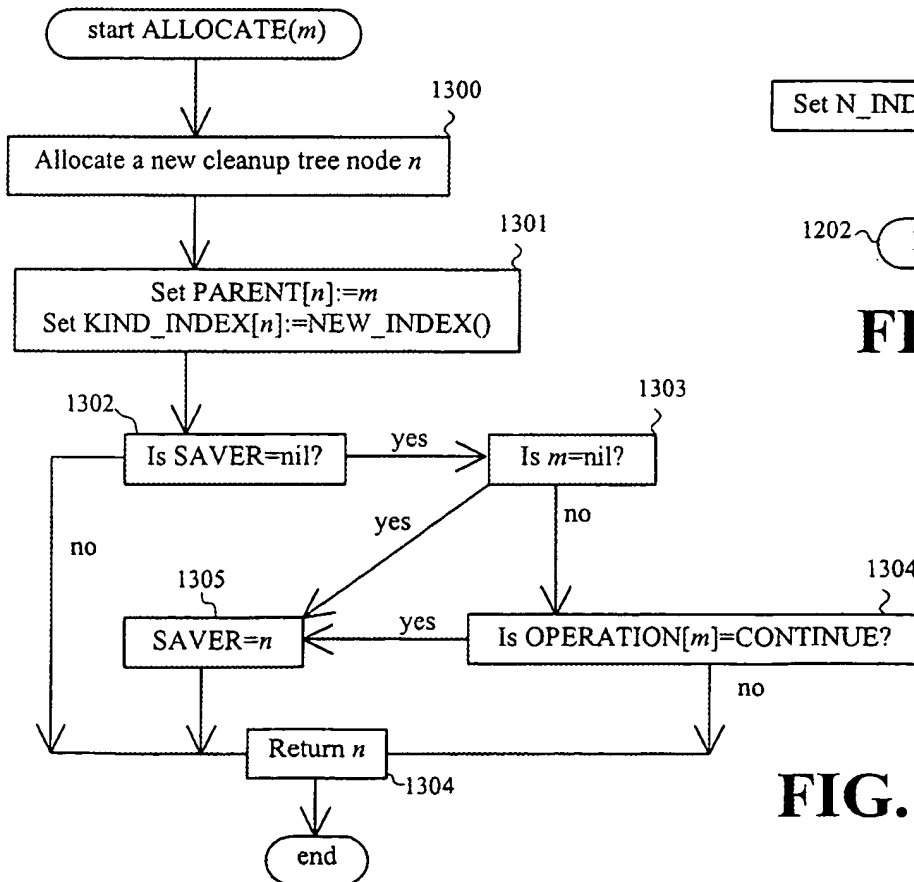
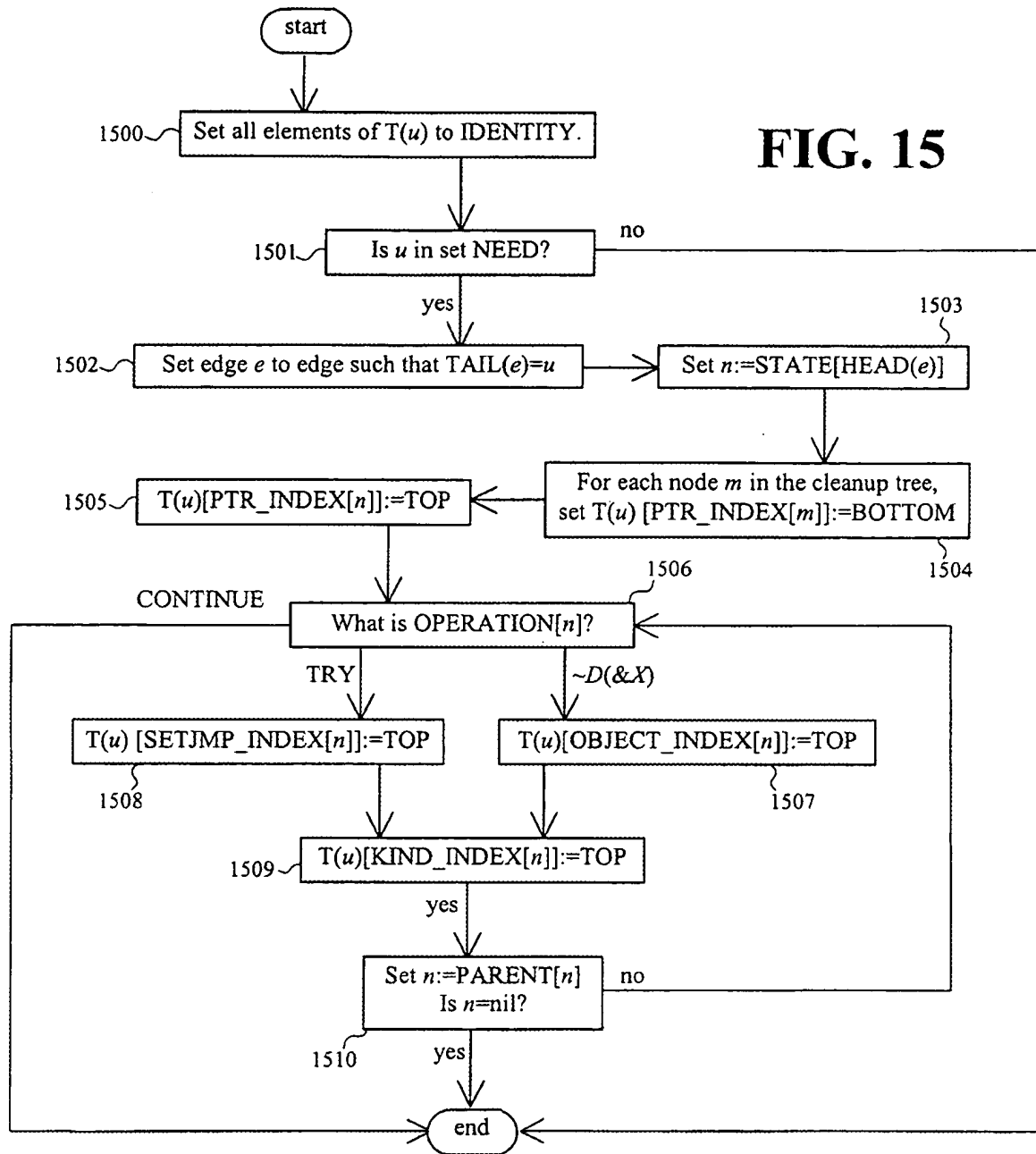


FIG. 13

FIG. 15



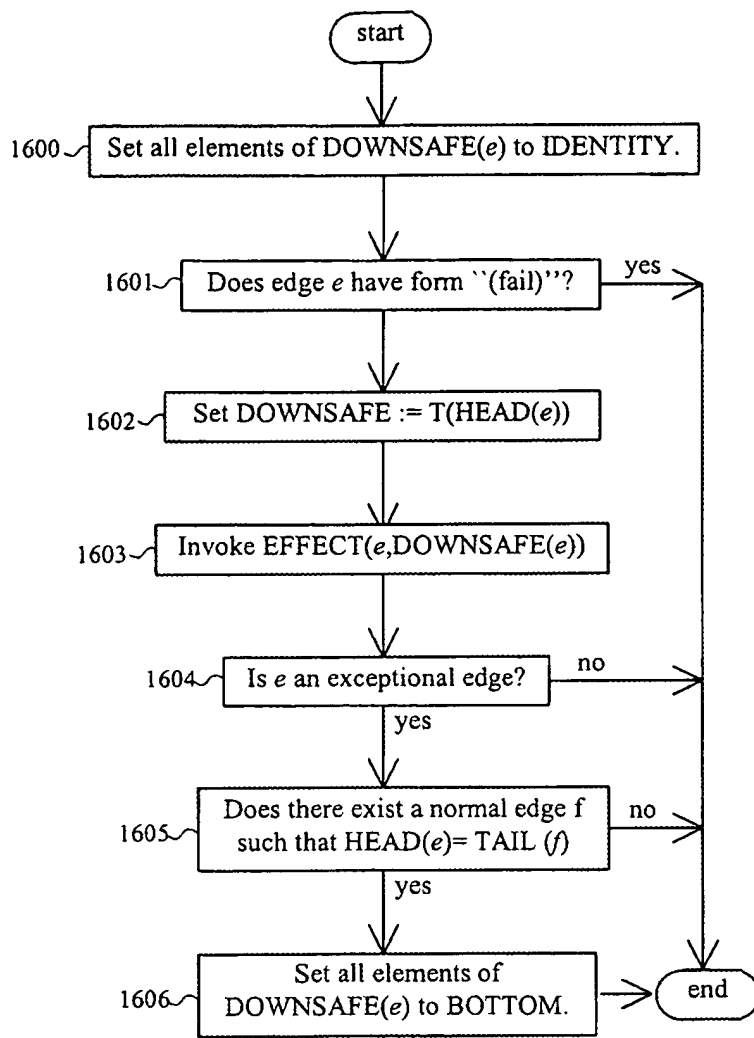


FIG. 16

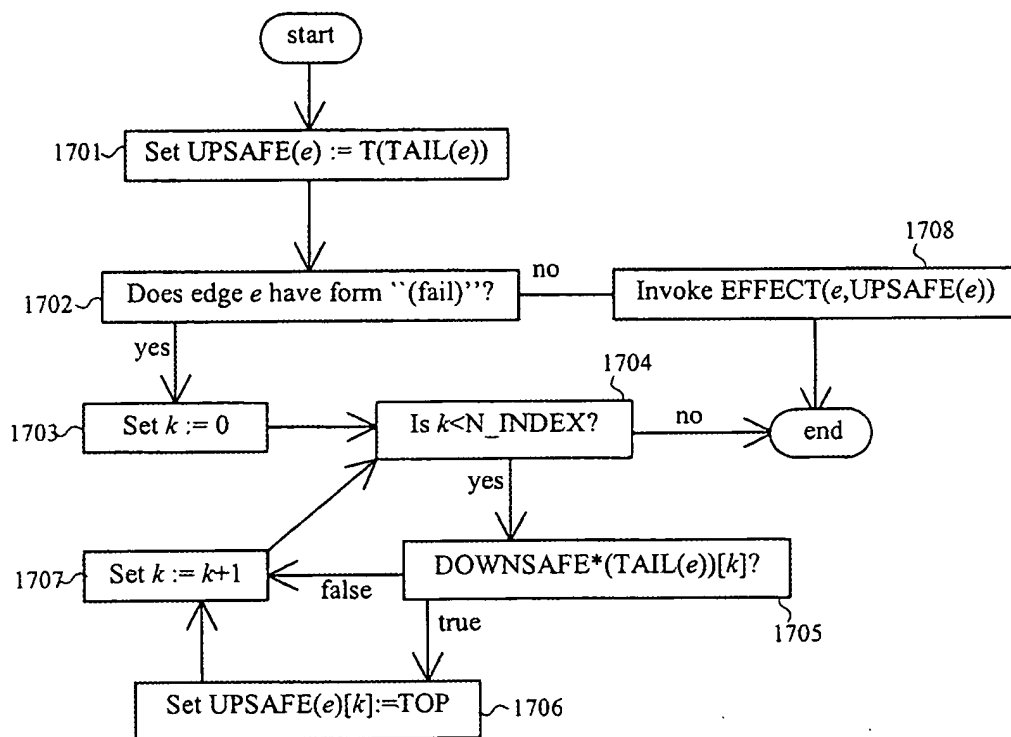


FIG. 17

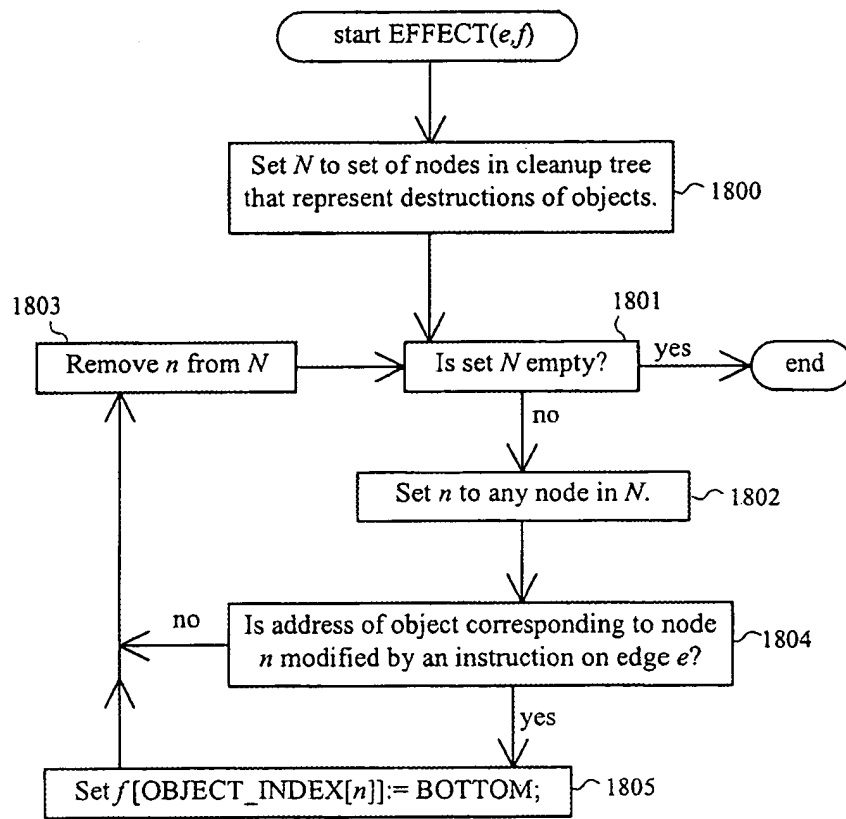


FIG. 18

FIG. 19

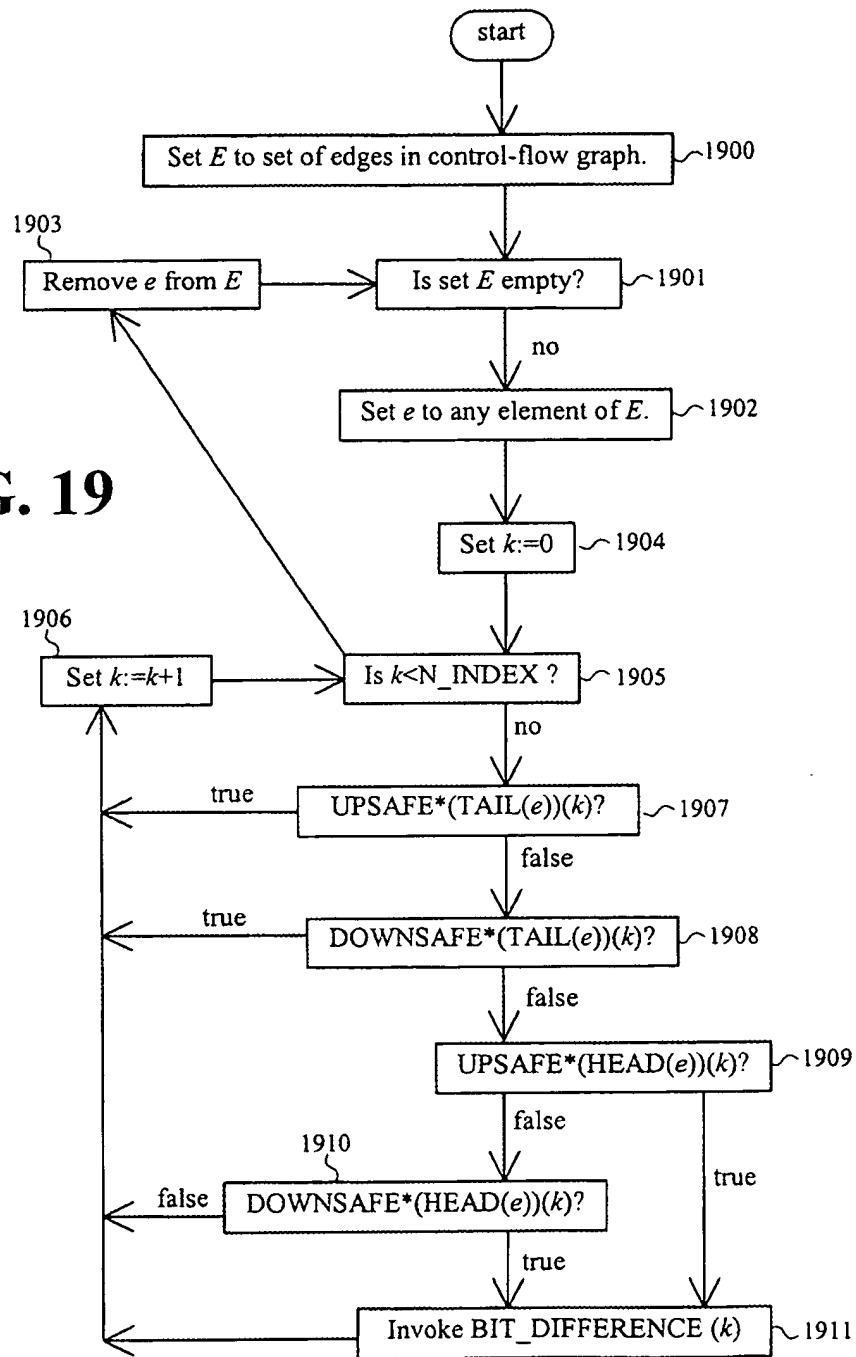


FIG. 20

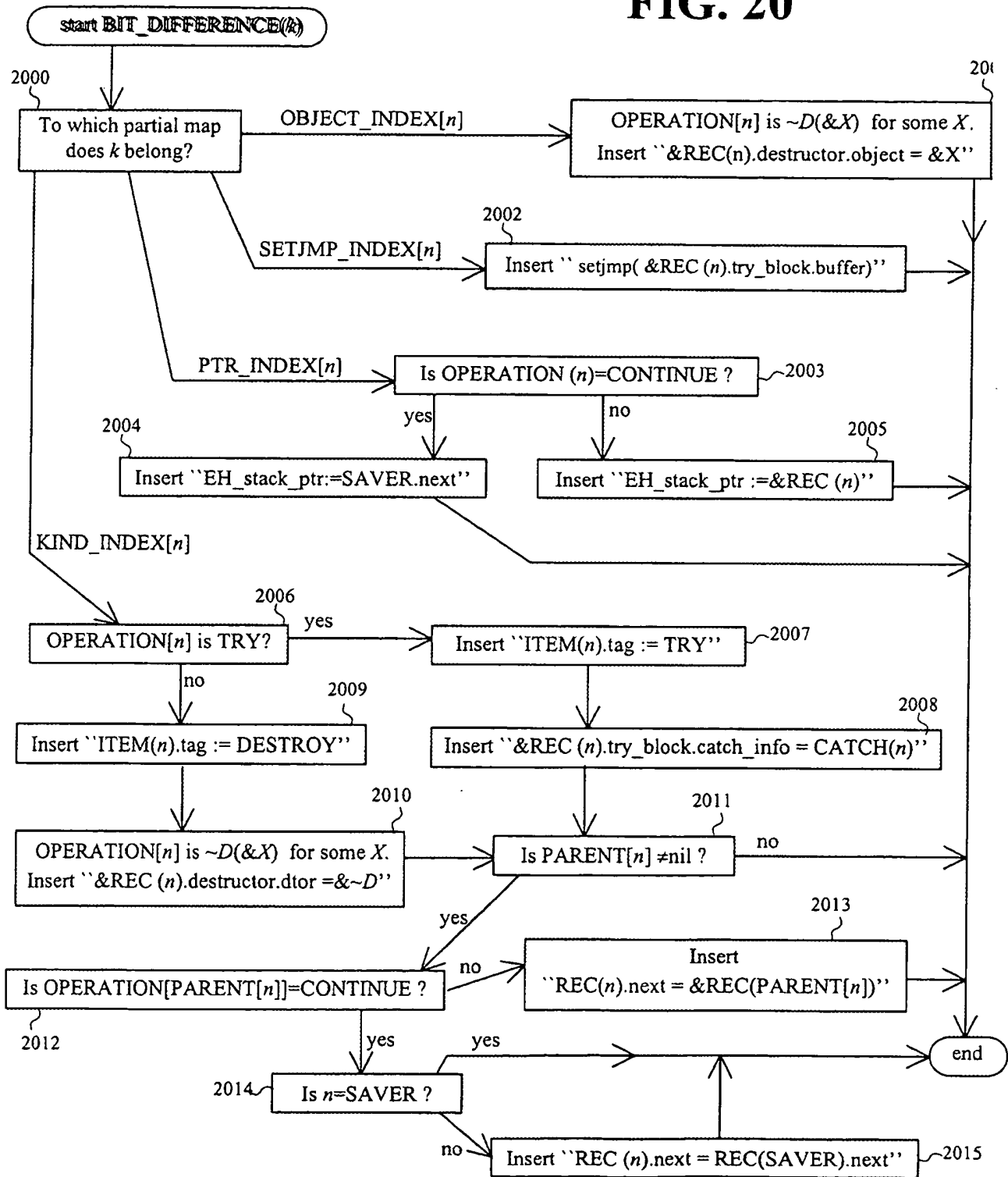


FIG. 21

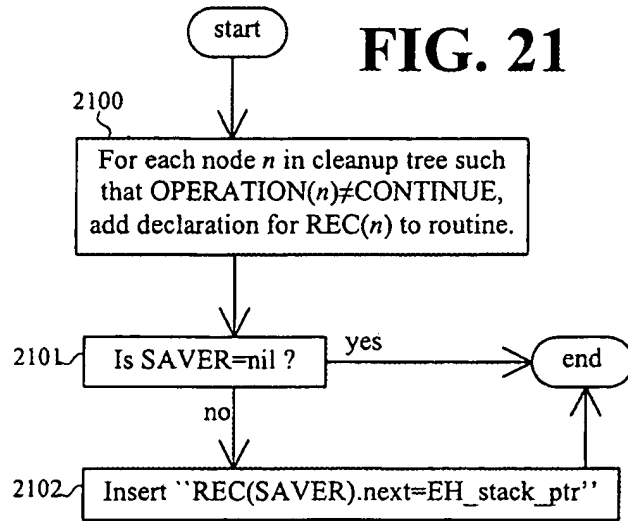


FIG. 22

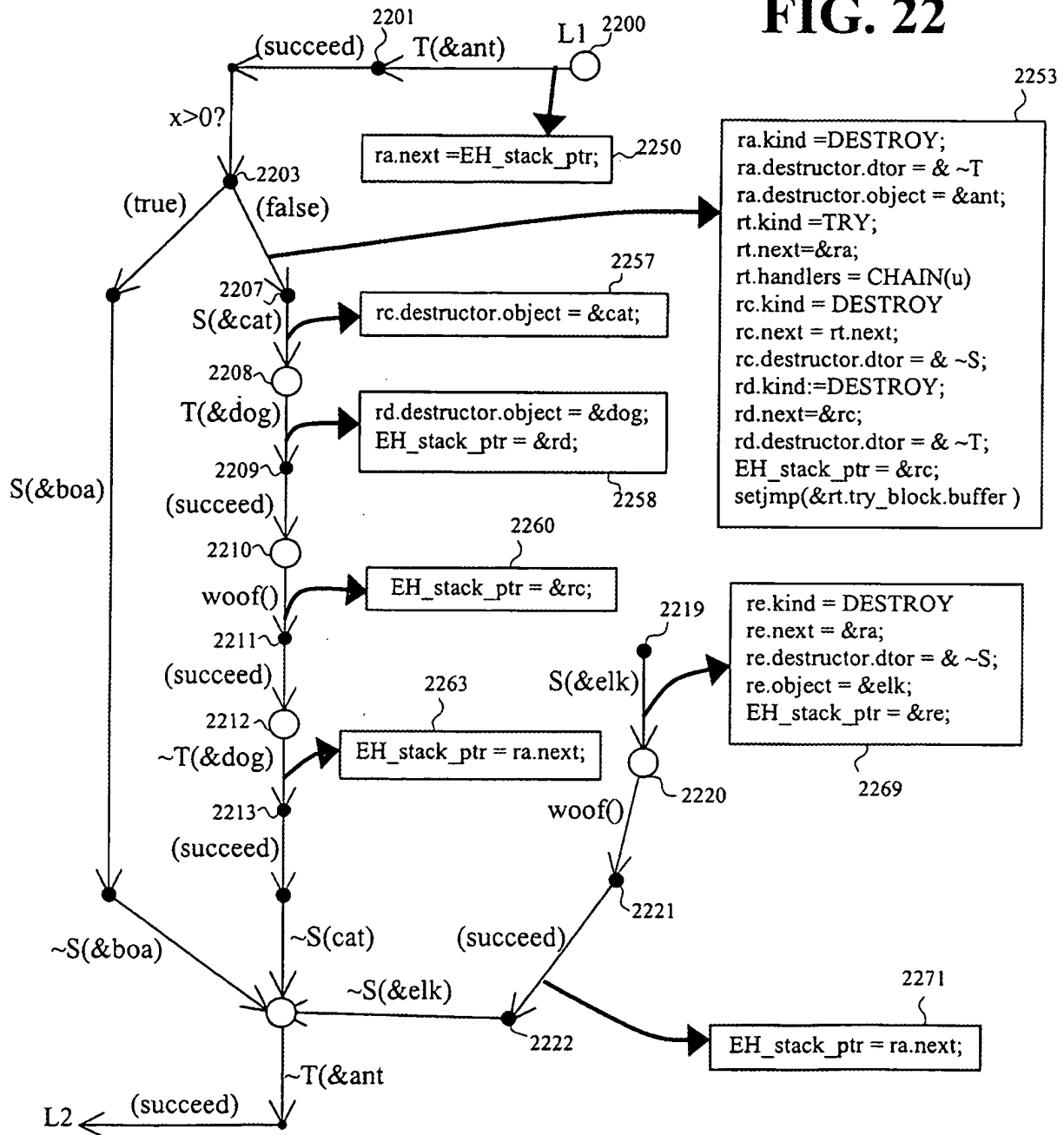


FIG. 23

```
struct EH_item ra, rb, rc, rd, re, rt; ~ 2301
L1:
ra.next = EH_stack_ptr; ~ 2303
T(&ant);
if( x>0 ) {
    S(&boa);
    ~S(&boa);
} else {
    ra.kind = DESTROY;
    ra.destructor.dtor = &~T;
    ra.destructor.object = &ant;
    rt.kind = TRY;
    rt.next = &ra;
    rt.try_block.handlers = ...;
    rt.next = &ra;
    rc.kind = DESTROY;
    rc.destructor.dtor = &~S;
    rc.next = &rt;
    rd.kind = DESTROY;
    rd.destructor.dtor = &~T;
    rd.next = &rc;
    eh_stack_ptr = &rc;
    if( setjmp( &rt.try_block.buffer)==0 ) {
        S(&cat);
        rc.destructor.object = &cat;
        T(&dog);
        rd.destructor.object = &dog;
        eh_stack_ptr = &rd;
        woof();
        EH_stack_ptr = &rc;
        ~T(&dog);
        EH_stack_ptr = ra.next;
        ~S(&cat);
    } else {
        re.kind = DESTROY;
        re.next = &ra;
        re.destructor.dtor = &~S;
        eh_stack_ptr = &re;
        S(&elk);
        re.destructor.object = &elk;
        woof();
        EH_stack_ptr = ra.next;
        ~S(&elk);
    }
}
~T&ant)
L2:
```

FIG. 24

```

struct R {
    R(); ~2402
    ~R() throw(); ~2403
};
...
{
    i=0;
    do { ~2408
        R fox; ~2409
        woof(); ~2410
        i=i+1;
    } while( i<100 ); ~2412
}

```

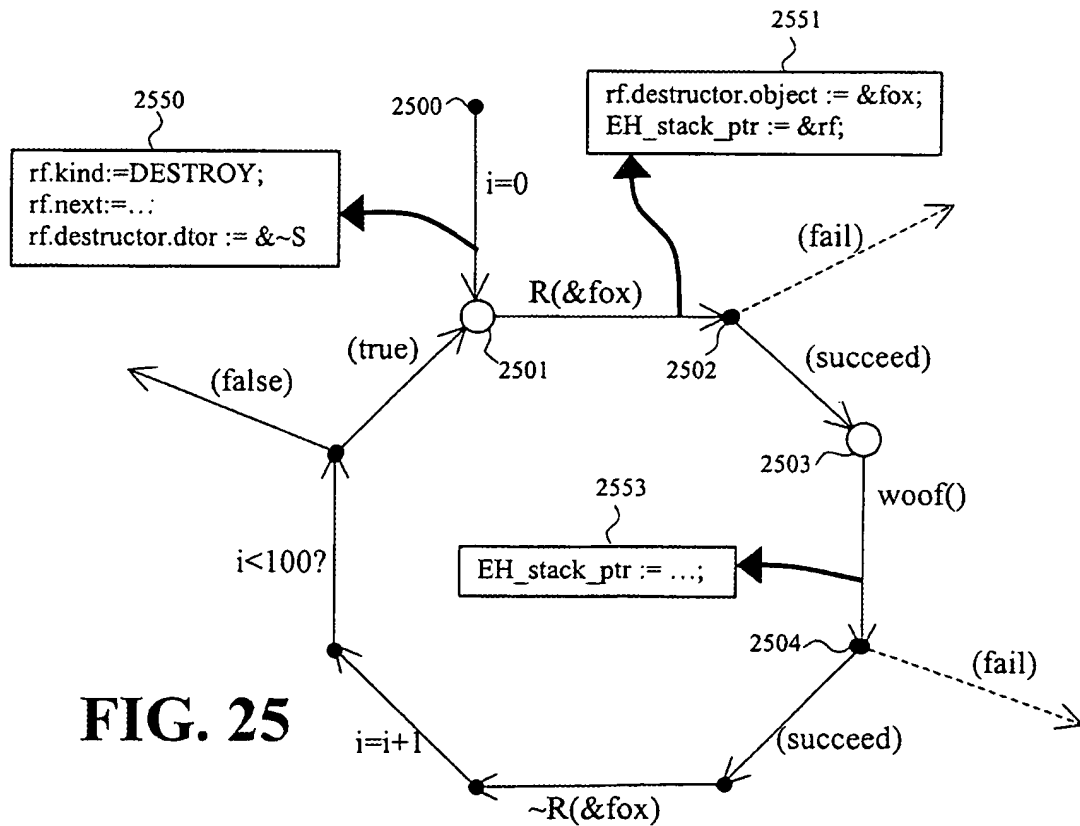


FIG. 25

FIG. 26

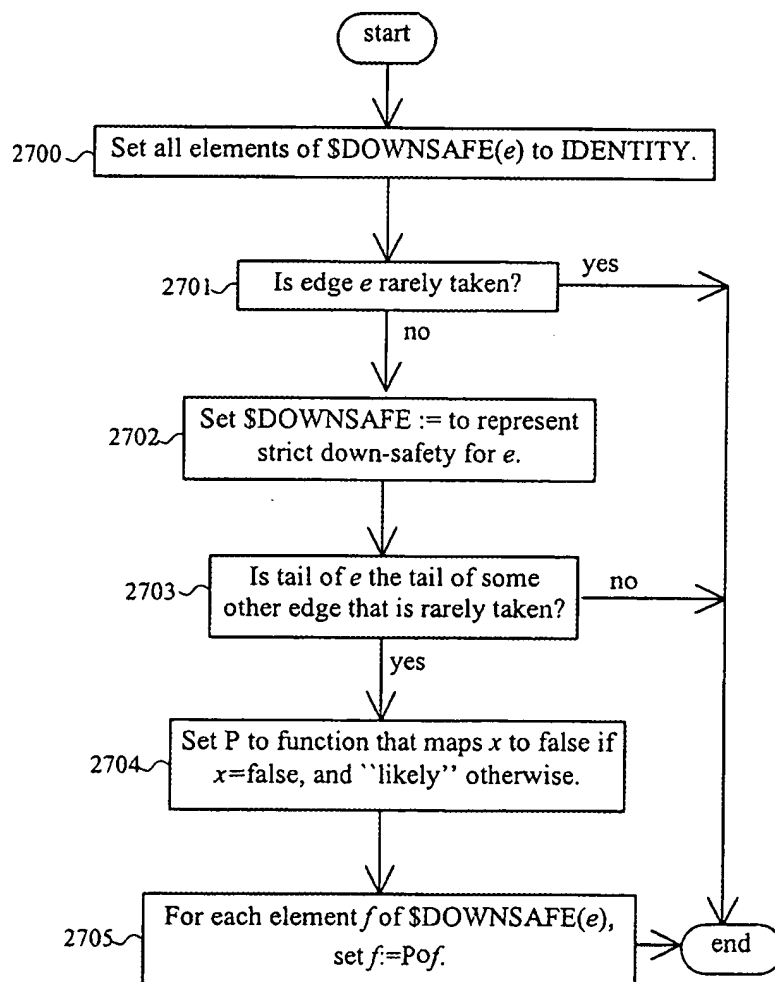
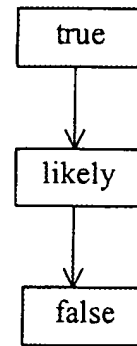


FIG. 27

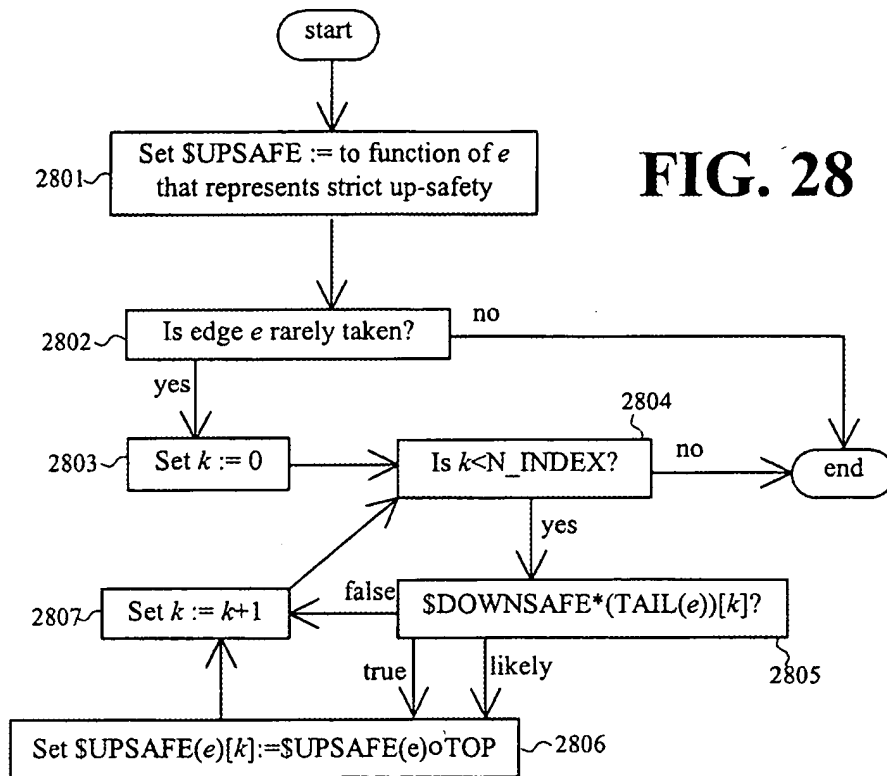


FIG. 29

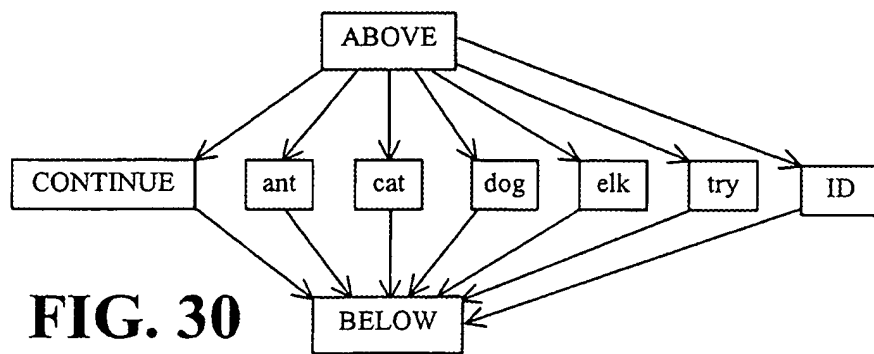
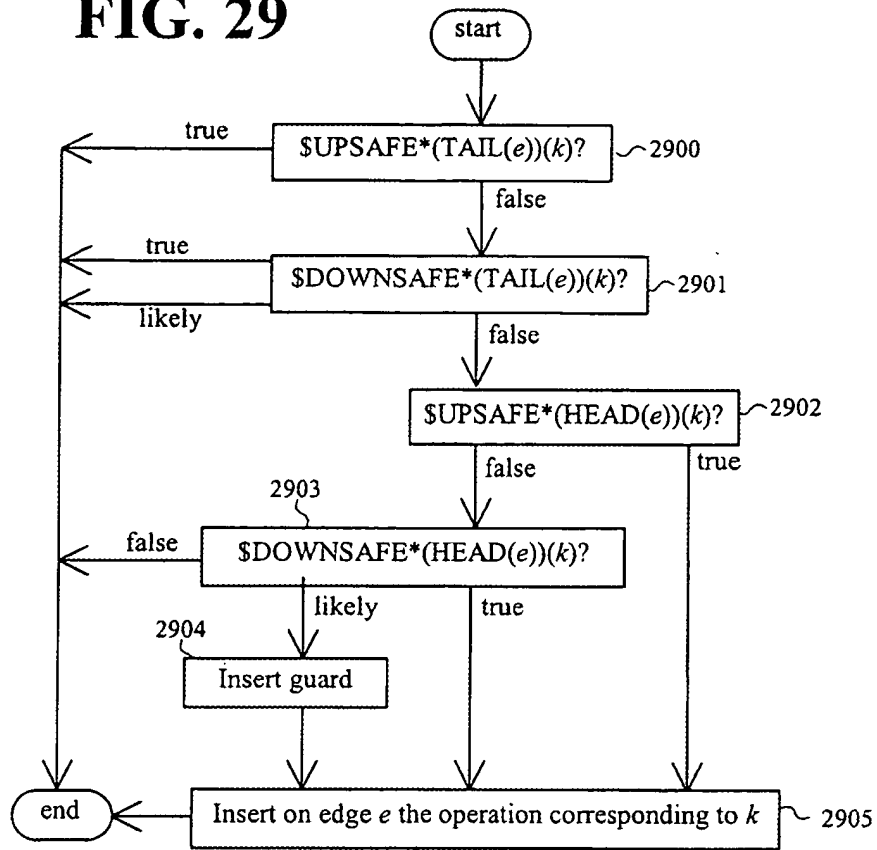


FIG. 30